L	DEVICIONI.	70						FNGINEERING	DATA	LIST		* HISTORY *
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CAGE: 0CK04		MANUFACTURER NAME: CUSTOM MACHINE WORKS	SAN JOSE CA	OSEC	▼		REFI 16L1	REFERENCE NR: 16L107-9		NOUN: CAP, DRJ	NOUN : CAP, DRIVE, ANTISKID	NSN: 1630010448890
CAGE		NUMBER	- 2 -	SY SHE	R N	REV SHEETS CARDS CODE CODE	RN DIS	T B NOUN			REQUIREMENTS	
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STAN	STANDARD ENGINEERING TEXT	ANG TEXT			1		-					
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ENG	ENGINEERING DATA LIST REMARKS	LIST REMARKS						FURNISHE C - CLAS: S - FURN M - STAB: FURN	FURNISHED METHOD CODE LEGEND: C - CLASSIFIED DOCUMENT. S - FURNISHED WITH SOLICITATION. M - STABLE BASE DRAWING REQUIRED; FURNISHED WITH CONTRACT AWARD	SEND: TATION. REQUIRED;	X - DATA SUPPLIED (NOT IN EDCARS). R - FURNISHED BY PCD UPON REQUEST. P - PARTIAL DOCUMENT FURNISHED. V - VENDOR DRAWING; (NOT PROVIDED).	S). G - GOV'T DOCUMENT. ST. O - OTHERS, CONTRACTOR MUST ACQUIRE. A - DATA NOT AVAILABLE.
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ENGINEERING DATA REQUIREMENTS (ATTACHMENT "A") NOTE: MILITARY SPECIFICATIONS I/STANDARDS WILL NOT BE FURNISHED IN THE BID SET. 1. THE FOLLOWING INSTRUCTIONS ARE FURNISHED FOR THE MANUFACTURE OF CAP DRIVE, ANTISKID - WHEEL MLG 2. PART NUMBER 16L107-9 1630-01-044-8890 4. THE FOLLOWING SPECIFICATIONS/STANDARDS, ETC., WILL BE USED IN LIEU OF THE DATA INDICATED. THE SUPERSEDED DATA WILL NOT BE					
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2. PART NUMBER 3. NATIONAL STOCK NUMBER 16L107-9 1630-01-044-8890 4. THE FOLLOWING SPECIFICATIONS/STANDARDS, ETC., WILL BE USED IN LIEU OF THE DATA INDICATED. THE SUPERSEDED DATA WILL NOT BE					
16L107-9 1630-01-044-8890 4. THE FOLLOWING SPECIFICATIONS/STANDARDS, ETC., WILL BE USED IN LIEU OF THE DATA INDICATED. THE SUPERSEDED DATA WILL NOT BE					
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4. THE FOLLOWING SPECIFICATIONS/STANDARDS, ETC., WILL BE USED IN LIEU OF THE DATA INDICATED. THE SUPERSEDED DATA WILL NOT BE FURNISHED UNLESS SO INDICATED.					
5. PER DRAWING REQUIREMENTS, PERFORM FLUORESCENT PENETRANT INSPECTION PER ASTM E 1417 I, METHOD B OR C, LEVEL 3 OR 4 IN LIEU OF IT-32.2 WITH THE FOLLOWING ACCEPTANCE/REJECTION CRITERIA: NO DEFECTS ALLOWED. THE INTENT OF NO DEFECTS ALLOWED IS THAT THE INSPECTION CONDUCTED AT THE REQUIRED SENSITIVITY LEVEL AND THERE SHALL BE NO INDICATIONS ALLOWER INSPECTOR PERFORMING THE INSPECTION SHALL BE CERTIFIED TO LEVEL II WITH THE INSPECTION PROCEDURE DEVELOPED BY A LEVEL III AS SPECIFIED IN NAS-410. 6. NOTE: ONLY THOSE FACILITIES THAT HAVE SUCCESSFULLY COMPLETED THE PRODUCTION PENET DEMONSTRATION PROGRAM AND ARE LISTED IN THE CURRENT REVISION OF FQPL-1101 CAN PERFORM	N IS D. THE				
NDTS-1101 INSPECTION TO ZONES 1A, 1B, 1C. THE FOLLOWING ACCEPTANCE/REJECTION CRITERIA WI USED FOR ALL OTHER ZONES AS LISTED BELOW.	LL BE				
(1) ZONE 0 AND ZONE 1: ROUNDED DISCONTINUITIES EQUAL TO OR EXCEEDING 0.02 INCHES SHALL BI REJECTED.	3				
(2) ZONE 2: (EXCEPT FOR CAST SURFACES) ROUNDED DISCONTINUITIES EQUAL TO OR EXCEEDING 0.0 INCHES SHALL BE REJECTED.	3				
(3) ZONE 2: (CAST SURFACES) ROUNDED DISCONTINUITY EQUAL TO OR EXCEEDING 0.03 INCHES SHAL REJECTED.	L BE				
(4) ZONE 3: THIS ZONE HAS BEEN RESERVED FOR FUTURE USE.					
(5) ZONE 4: THIS ZONE IS INTENDED FOR INSPECTION OF RAW MATERIALS SURFACES, I.E. AS FORGED, AS ROLLED, ETC. DISCONTINUITIES RESULTING FROM SURFACE IMPERFECTIONS WHICH ARE PERMITTED BY THE PROCUREMENT SPECIFICATION ARE ACCEPTABLE.					
(6) ZONE 5: THIS ZONE IS INTENDED FOR AREAS WHERE SUBSEQUENT PROCESSING SUCH AS MACHINING, ETCHING, GRINDING, ETC. WILL BE USED TO REMOVE SURFACE MATERIAL. DISCONTINUITIES RESULTING FROM ROUGH SURFACES, MINOR POTTING, ETC. SHALL NOT BE CAUSE FOR REJECTION PROVIDING THE CONDITIONS ARE REMOVABLE WITHIN DRAWING TOLERANCES.					
PREPARED BY SYMBOL DATE					
JOAN HYATT LGMPM 5 Oct 01					

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REV:	ENGINEERING DATA REQUIREMENTS CONTINUATION SHEET (ATTACHMENT "A")				
PART NUMBER	NATIONAL STOCK NUMBER				
16L107-9		1630-01-044-8890			
(7) ZONE 6: THIS ZONE IS INTEN AIRCRAFT QUALITY CASTINGS.					
NOTE: WHEN NO ZONE NUMBE ACCEPT/REJECT CRITERIA FOR WHETHER VISIBLE UNDER WHI' A LENGTH THREE TIMES OR GR	ROUNDED DISCONTINUI TE OR BLACK LIGHT. LI	ITIES. LINEAR DEF NEAR INDICATION	ECTS ARE N	OT ALLOWED	
FOR A ROUNDED INDICATION T DISCONTINUITIES THAT TOUCH DISCONTINUITIES WHOSE SEPA WHICH ARE VISIBLE UNDER BL	I THE CONGLOMERATE S RATION DISTANCE IS EQ	SIZE SHALL BE CON QUAL TO OR CLOSE	ISIDERED AS R THAN ZON	ONE DISCONTINUITY. BE CRITERIA SIZE AND	
7. THE REQUIRED CASTING WII ORIGINAL CASTING PROCEDUR		THE QUALIFIED CA	ASTING SOUI	RCE USING THE	
A. PRIOR TO CONTRACT AWA CASTING SOURCE TO THE GOVI AVAILABLE AND THAT THE CA PROVIDE CASTINGS FOR THEIR	ERNMENT THAT THE CE STING SOURCE HAS AN	RTIFIED TOOLING . AGREEMENT WITH	AND CASTIN THE DETAIL	G PROCEDURES ARE L PART BIDDER TO	
B. PRIOR TO PRODUCTION, C CASTING DRAWING AND AMS 5 ACCOMPLISHED BY THE CASTIL THE GOVERNMENT.	355. THE CONTRACTOR	WILL ASSURE THA	T THIS IS OR	R HAS BEEN	
8. CASTING SOURCE, CONTROL	L AND LOCATION OF TO	OLING:			
A. CASTING DRAWING: 16110	77-7				
B. CONTROL OF CASTING PRO	OCESS: LOCKHEED				
C. LOCATION OF CASTING TO	OOLING:				
SOLIDFORM INC. P.O. BOX 7656 3928 LAWNWOOD FT. WORTH, TX 76111-6539 (817) 831-2626 DIE #: 4283 CAGE: 1CR64 ATTN: BOB HOLMES	PRIME ALLOY A 717 INDUSTRIAL PORT HUENEME (805) 488-6451 CAGE: 60600 ATTN: ELAINE	E, CA 93041			
PREPARED BY		SYMBOL	₁	DATE	
JOAN HYATT		LGMPM		5 Oct 01	

	· <u>~ ~ </u>				
REV:	ENGINEERING DA	TA REQUIREMENTS CONTINUATION S (ATTACHMENT "A")	SHEET		
PART NUMBER		NATIONAL STOCK NUMBER			
16L107-9		1630-01-044-8890			
9. FPS-1001 AND FPS-	1082 AND ALL CASTING NOTES WIL	L BE COMPLETED BY THE CA	STING VENDOR.		
10. FPS-3001 IS NOT P	ROVIDED, FINISH PER THE FOLLOW	VING:			
A. CLEAN AND CHI	EMICAL FILM ALL SURFACES PER N	MIL-C-5541.			
B. APPLY ONE COAT PRIMER PER MIL-PRF-85582 WATER REDUCIBLE PRIMER ON EXPOSED SURFACES AND TWO COATS ON REMAINING SURFACES.					
C. APPLY TWO COA SURFACES.	ATS OF MIL-PRF-85285 URETHANE C	COATING, BLACK, COLOR 3703	8 ON SPECIFIED		
11. MARK AND IDENT	TIFY PER MIL-STD-130 IN LIEU OF F	PS-3008.			
12. RIVETS PER AIA/N	NAS NAS 523 IN LIEU OF NAS523.				
	T AWARD, THE SUCCESSFUL BIDDI OUTING DOCUMENTS AND PROCES I BEGINS.				
SHIPMENT OF DISCRE	TEM ENGINEERING RETAINS ALL F PANT ITEMS. ALL DEVIATIONS, M WILL BE SUBMITTED FOR MRB DISI	IINOR AND MAJOR, FROM THE			
FULL COMPLIANCE W THE MANUFACTURE COMPLETELY SEARC REQUIREMENTS NEC	ACT AWARD, THE CONTRACTOR WITH MANUALS, SPECIFICATIONS, A OF THIS CONTRACTED COMPONEN HITHESE MANUALS, SPECIFICATION ESSARY TO MANUFACTURE LANDING OFFICE OO-ALC/LILE.	AND STANDARDS CALLED OU IT/ASSEMBLY. CONTRACTOR NS, AND STANDARDS AND FU	T AND REQUIRED FOR IS RESPONSIBLE TO LLY UNDERSTAND THE		
PREPARED BY		SYMBOL	DATE		
JOAN HYATT		LGMPM	5 Oct 01		

CONTRACT DATA REQUIREMENTS LIST Form Approved (1 Data Item) OMB No. 0704-0188 Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the government Issuing Contracting Officer for the Contract/PR No. in Block E. A. CONTRACT LINE ITEM NO. B. EXHIBIT C: CATEGORY: TESTING AND INSPECTION Α TM ID SYSTEM/ITEM IE. CONTRACT/PR NO. IF. CONTRACTOR CAP DRIVE ANTISKID FD202003-21412 1. DATA ITEM NO. |2. TITLE OF DATA ITEM 3. SUBTITLE 17. PRICE GROUP A001 TEST/INSPECTION REPORTS OVERNMENT TESTING 18. ESTIMATED 4. AUTHORITY (Data Acquisition Document No.) 5. CONTRACT REFERENCE 6. REQUIRING OFFICE DT-NDTT-80809B/T 00-ALC/TIELV TOTAL PRICE 7. DD 250 REQ 9. DIST STATEMENT 10. FREQUENCY 12. DATE OF FIRST SUBMISSION 14. DISTRIBUTION REQUIRED DD 1TIME BLK 16 b. COPIES 8. APP CODE 11. AS OF DATE 13. DATE OF SUBSEQUENT SUBM. a. ADDRESSEE -final-N/A N/A draft|reg|repr| N/A 16. REMARKS 00-ALC/TIELV 1 (4) Contractor format acceptable. Paragraph 10.2 of DD Form 1664 is 7278 4TH STREET clarified as follows: All dimensions and tolerances specified on the manufacturing data shall BLDG 100, BAY D be listed in one column with the actual corresponding reading obtained from inspection of the part, listed in another column. HILL AFB UT Materials utilized in the manufacture of "First Article" item shall be identified and certified along with a copy of material purchase requests as 184056-5205 conforming to applicable data requirements. Material processes including finish requirements (plating, heat treatment welding inspections, anodize, painting, etc.) utilized in the manufacture of the first article will be identified and certified as conforming to the applicable requirements. A copy of the purchase order certifying the processes accomplished at other than contractor facility shall be included. Other requirements as called out on Engineering Data Requirement (AFLC Form 3720). (9) DISTRIBUTION STATEMENT D: Distribution authorized to the Department of Defense and DOD contractors only (Critical Technology) (15 Sept 95). Other requests for this document shall be referred to OO-ALC/LIL. (12) Submit concurrently with First Article. FOB DESTINATION

DD Form 1423-1, JUN 90

RAY BROWN LGOO DATA MGR

G. PREPARED BY

Previous editions are obsolete

T. APPROVED BY

BRYAN SMITH/LGOO/CH

H. DATE

12 SEP 02

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J. DATE

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12 SEP 02

15. TOTAL -

12

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

- Item A. Self-explainatory.
- Item B. Self-explainatory.
- Item C. Mark (X) appropriate category: TDP Technical Data Package; TM Technical Manual; Other other category of data, such as 'Provisioning', 'Configuration Management', etc.
- Item D. Enter name of system/item being acquired that data will
- Item E. Self-explainatory (to be filled in after contract award).
- Item F. Self-explainatory (to be filled in after contract award).
- Item G. Signature of preparer.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item $4. \,$
- Item 3. Enter subtitle of data item for futher definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g. Statement of Work paragraph number).
- Item 6. Enter technical office responsible for ensuring adequacy of|
 the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref DoDD 5230 24)
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 13. Specify when subsequent submittals are required, when applicable. $% \begin{center} \end{center} \begin{center} \end{center}$
- Item'14. Enter addresses and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

- Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
- a. Group I. Definition Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contrator must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use data shall be governed by the pertinent provisions of the contract.

SOURCE QUALIFICATION REQUIREMENTS

(PL98-525, SECTION 2319)

STOCK NR (NSN)1630-01-044-8890 NOUN: Cap Drive, Anti-skid-Wheel, MLG PART NUMBER (P/N)16L107 AIRCRAFT:F-16

SECTION C

QUALIFICATION REQUIREMENTS THAT MUST BE SATISFIED TO BECOME A QUALIFIED SOURCE:

- 1. Because of the need for uninterrupted item support to military aircraft systems while keeping with the requirements of PL 98-525, the current acquisition need not and generally will not be delayed to provide an offeror an opportunity to qualify. Normal acquisition practices at OO-ALC should preclude the denial of opportunity to any interested offeror.
- 2. The offeror must provide a pre-contract award qualification article, which meets the requirements of the engineering drawings, material specifications, and process specifications. However, successful completion of the qualification testing does not guarantee any contract award. If the offeror is deemed qualified and awarded the contract, a post-contract award first ariticle exhibit may be required to verify production capability.
- 3. The qualification article will be subjected to form, fit, and function verification as well as required testing to assure compliance with data list and other applicable procurement criteria. The qualification article shall demonstrate full compatibility and comparability with existing parts.
- 4. The required materials will be procured from a qualified source and shall meet the requirements of their respective specifications. The offeror will assure that the supplier has accomplished this and shall submit certified documentation of accomplishment of the above requirements to the purchaser along with the precontract award qualification article.
- 5. The required castings shall be procured from the qualified casting source using the original certified casting procedures and tooling. Casting material and lot qualifications shall be accomplished as required in the specified forging drawing, P/N 16L1074nd specification AMS 5355. The offeror shall assure that this is or has been accomplished by the casting source and will submit certified documentation of accomplishment of the above requirements to the government along with the pre-contract award qualification article.
- 6. The qualification article once submitted will become subject to such testing as deemed necessary by the U.S. Government to prove that the article meets all dimensional, processing and functional requirements. Such testing may result in the destruction of the article. Following completion of necessary testing and evaluation, the article no matter what its condition shall be returned to the contractor or disposed of at his discretion and direction whether it was found acceptable or not.
- 7. Form verification: The U.S. Government's Quality Verification Center (QVC) will be used to insure compliance with the dimensional requirements of the article. Material and processing compliance will also be verified as required.
- 8. Fit/function verification: Existing components and government test stands and fixtures will be utilized to verify physical interface and functional performance of articles.
- 9. Testing for material and process compliance.

(a) Material analysis

(d) Plating

(b) Heat treat

(e) Finish

(c) Grinding

(f) Other

SOURCE QUALIFICATION REQUIREMENTS (PL98-525, SECTION 2319)

STOCK NR (NSN)<u>1630-01-044-8890</u> NOUN: <u>Cap Drive</u>, <u>Anti-skid-Wheel</u>, <u>MLG</u>

PART NUMBER (P/N)16L107 AIRCRAFT:F-16

10. Remarks:

- a. Organic verification capabilities exist at OO-ALC.
- b. Testing requirements outside organic capabilities will be contracted out.
- 11. The estimated cost of government testing and evaluation is \$5,000.
- 12. Maximum time for testing of the qualification article will not exceed 30 days from receipt at testing agency.